V-D. MORBIDITY STATISTICS IN OTHER FOREIGN COUNTRIES

The prevalence of respiratory symptoms has been investigated in several countries. As in the United States and Great Britain, there are several causes of respiratory symptoms including cigarette smoking, air pollution and industrial hazards.

- 1. Canada. As in the United States, there is an increasing mortality from bronchitis and emphysema in Canada (Gauthier, 1970; The morbidity statistics are less extensive in Neri et al., 1970). Canada. Anderson and others (1965) surveyed 246 males and 311 females in Chilliwack, British Columbia. Chronic respiratory disease was found to affect 29.3% of men and 18% of women between 25 and 79 years of age. The authors concluded that cigarette smoking was the most important single factor associated with respiratory diseases. Smoking caused a higher prevalence of respiratory symptoms in the following groups: 200 men and women 70 to 89 years old (Aguzzi et al., 1966); 310 male physicians 25 to 74 years old (Lefcoe and Wonnacott, 1970); 1,015 male employees in asbestos mines and mills (McDonald et al., 1972; and 1,138 Eskimos (Beaudry, 1968). The respective roles of air pollution, respiratory infections and social status have not been elucidated in these reports.
- 2. Sweden. The twin registry in Sweden has provided an unusual opportunity to investigate the morbidity among monozygotic and dizygotic pairs. In a group of 71 monozygotic twins with discordant and the sweden has provided an unusual opportunity to investigate the morbidity among monozygotic and dizygotic pairs. In a group of 71 monozygotic twins with discordant and bronchitis and bronchitis.

The following surveys indicate a higher incidence of respiratory illness in smokers than in nonsmokers: 339 men 50 years old (Wilhelmsen and Tibblin, 1966; Wilhelmsen et al., 1969), 240 iron mine workers (Jörgensen and Svensson, 1970), and 22,250 urban and rural residents (Irnell and Kiviloog, 1968). In the last two reports, the extent of air pollution influenced the morbidity from cigarette smoking.

3. Finland. In a rural population and among area pulp mill worke there is a difference in prevalence of respiratory symptoms both in smokers and in nonsmokers. The higher incidence in the industrial area may relate either to the pollution in the air or to the fact that it is in the Arctic area (Huhti, 1965, 1966; Huhti et al., 1970). In these surveys as well as in those conducted by Järvinen et al. (1966) and Ruikka et al. (1966), smoking was found to increase the

- 4. France. The higher prevalence of chronic bronchitis among smokers as compared with nonsmokers has been reported by Fréour et al. (1966), Kourilsky et al. (1966), Coudray et al. (1969), Brille (1969, 1970), Brille et al., 1970, Fournier and Zivy (1970), Golli (1970), Jancik (1970), and Vigy (1970). All of these reports confirm the observations previously made in the United States and Great Britain.
- 5. Germany. More than 30,000 questionnaires from 10 clinics of different towns in West Germany were analyzed (Ulmer and Reif, 1966). The nature of occupation influences the incidence of obstructive emphysema. Specific occupational types have been surveyed by others: asbestos workers (Hany et al., 1967), coal miners (Ulmer et al., 1968; Ulmer and Reichel, 1970; Ulmer, 1970) and chemical factory workers (Possner, 1970). The role of industrial exposure and cigarette smoking in the pathogenesis of pulmonary emphysema in Germany has been discussed by Wendel (1966).
- 6. Other Western European countries. In the Netherlands, Biersteker (1968, 1969) and Biersteker et al. (1969) reported an association between smoking and symptoms of chronic bronchitis among 1,000 male municipal employees. In Denmark, a group of 802 males and females over 50 years of age showed a lower ventilatory function in smokers than in nonsmokers (Hagerup and Larsen, 1971). In Copenhagen, a group of 156 welders was compared with a group of 152 other workers from the same plant (Fogh et al., 1969). The

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VI: BRONCHOPULMONARY FUNCTION IN SMOKERS AND NONSMOKERS

There are several investigations comparing measurements of bronchopulmonary function in smokers and nonsmokers. The results are discussed in this section, as distinct from those contrasting patients having pulmonary emphysema or chronic bronchitis with healthy controls (see Sections II and III). The separation is not a common practice because of the widespread belief that in smokers there is an abnormal bronchopulmonary condition representing the early stages of chronic bronchitis or pulmonary emphysema. There is no clinical or experimental support for this assumption.

With regard to the literature on this topic, it is important to

point out that in the follow-up of smokers who show subnormal

bronchopulmonary functioning there is no report of a subject who

has developed chronic bronchitis and pulmonary emphysema. Most

of the available articles deal with a comparison of smokers and nonsmokers

executed once without a follow-up. The bibliographic list containing

articles which serve as a background to this section is as follows:

No. 13. Pulmonary functional test.

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Several reports have appeared describing the effects of cigarette smoking on lung function. The conclusions are varied and depend on the manner of comparing smokers with nonsmokers. This discussion considers the importance of age, sex, height, environment and country of origin in determining the influence of cigarette smoking on pulmonary ventilation.

l. Age, sex, height and environment. A group of 302 subjects in Australia was investigated by Read and Selby (1961). The results were expressed as regression coefficients. for mean expiratory flow based on age and height. Smokers without symptoms did not differ significantly from nonsmokers. However, smokers who complained of coughing with or without expectoration had lower ventilatory function than nonsmokers. The authors concluded that smoking alone does not reduce ventilatory function and suggested that a combination of genetic and environmental factors would produce symptoms and signs of decreased ventilatory function.

Standardized to the average age, height and weight. They found the regression coefficient calculated separately for nonsmokers, light-to-moderate smokers and heavy smokers to be practically the same.

This manner of testing the significance of the difference between smokers and nonsmokers has been overlooked by others who have correlated ventilatory capacities with age only.

in the United States, specifying their age, height and smoking habits.

They noted that vital capacity, inspiratory capacity and forced expiratory rate were slightly smaller and the functional residual capacity and residual volume were slightly lower in smokers than they were in nonsmokers. The differences were explained by the difference in mean age of nonsmoking subjects, which was lower than that of any of those who smoked.

In Finland, 420 men and 608 women, ranging in age from 40 to 64 years, were examined by Huhti (1967). On the basis of regression coefficients of age and height, there was no difference in forced vital capacity, one-second forced expiratory volume and peak expiratory flow between smokers and nonsmokers. A group of 44 young male recruits in Roumania was investigated by Stanescu et al. (1968).

Lung volumes and ventilatory capacities of smokers did not differ from those of nonsmokers.

2. Age and environment. Flick and Paton (1959) reported the first comparison of ventilatory tests in a group of 222 male patients at a Veterans Hospital in the United States. The maximal expiratory flow was statistically different only between 60 and 70 years of age: the mean value for 20 nonsmokers was 378 l/min and that for 61 smokers was 258 l/min. Subjects from 20 to 50 years did not show a significant difference in their maximal expiratory flow.

Smoking in the older age group (40 to 60 years) has been shown by other investigators to reduce ventilatory function: Franklin

and Lowell (1961) in 376 male employees in Massachusetts; Catlett and Kidera (1969) in 257 male flight officers. Larson (1963) noted a difference in ventilatory function between smokers and nonsmokers, starting with the 30-year-old group in California. However, the difference cannot be attributed to smoking alone. The role of air pollution is difficult to assess in these reports, but one additional report has defined its influence. Anderson and Ferris (1965) compared the results of pulmonary function tests in a group in New Hampshire and another group in Canada. After controlling variations in age, sex and smoking habits, there were still significant differences in values of forced expiratory volume and peak expiratory flow rate. These differences could be explained by ethnic factors and atmospheric pollution.

3. Absence of age grouping. A survey of 262 American physicians, ranging in age from 25 to 79 years, showed that smokers have lower ventilatory function than nonsmokers (McIlreath and Cohen, 1966). In another group of 410 volunteers in an American community, ranging in age from 20 to 103 years, there was a decrease in ventilatory function of smokers (Edelman et al., 1966). A similar conclusion was arrived at in the examination of the following: 350 males in Pennsylvania 50 years or over (Weiss et al., 1963), 20 medical students or doctors in Massachusetts 18 to 45 years (Zwi et al., 1964), 140 males and females in Connecticut 67 to 95 years (Kiss, 1966), 150 males in India 15 to 50 years of age (Mohanty and Gupta, 1968), 298 females in Canada 25 to 59 years of age (Woolf and Suero, 1971), and 365 students in Connecticut

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occurrence of respiratory symptoms in the welders and in the controls

was associated with the cigarette smoking.

In Norway, Haenszel and Hougen (1972) concluded that the prevalence of respiratory symptoms was related to urban residence and to the amount of cigarettes consumed. In Spain, Bouhuys et al. (1969 a, b) noted that in a group of 216 hemp workers the associated disabling respiratory disease is attributable not to smoking habits but to prolonged exposure to hemp dust. In Switzerland, prospective studies of 3,479 doctors (Strobel and Gisell, 1965) and 1,885 residents of Basle (Mannhart, 1962) revealed a higher incidence of chronic lung disease among smokers than among nonsmokers.

7. Eastern Europe. In Poland, most surveys were conducted among workers with the following industrial connections: port and shipyard (Dobrzyński et al., 1970a), grain elevator (Dobrzyński et al., 1970b), wool industry (Brysiewicz et al., 1970), textile (Cierniak et al., 1970; Szymczykiewicz et al., 1970), plaster works (Owsinski et al., 1971) and steel works (Council of Scientific Research, 1972). The workers who smoked cigarettes showed a higher rate of incidence of respiratory symptoms than nonsmokers. There are surveys which include residents of Bialystok (Pregowski et al., 1970), Warsaw and (Kucewicz, 1969 a, b), Lublin (Durda and Szafranski, 1971),/Zarze (Pudelski et al., 1971).

In Czechoslovakia, epidemiological studies have been conducted as follows: 473 men 60 to 64 years old in Prague (Stanek et al., 1966);

441 men 50 to 65 years old in Prague (Boudik et al., 1970); 112 min ers in Karvina (Pochmon et al., 1968); 3,466 hospital patients in Katowicach (Gasinska and Gburek, 1970); 2,376 persons in Brno (Vyskocil, 1968; Jancik and Jancik-Mak, 1972); and 95 men residing in Klin (Feuereisl et al., 1972). In the last-mentioned study, 5 men out of 51 who smoked 292,000 to 584,000 cigarettes during their lifetime showed no objective signs of chronic bronchitis.

The surveys in the U.S.S.R. (Petrova, 1956; Danovich et al. 1969; Futorainsky et al., 1971), Roumania (Jelea et al., 1964; Stanescu et al., 1967), and Yugoslavia (Kalacić, 1970; Valic and Zuskin, 1972) have revealed an association between smoking and symptoms of chronic lung disease.

8. Middle East and Africa. Workers in South African gold mines have been examined by several investigators. Chatgidakis (1960) noted at autopsy that smokers with silicosis had lungs characterized by enlarged bronchial mucus glands. The enlargement was also seen in nonsmokers. In a survey of 827 males, chronic bronchitis was more common in miners than in nonminers in the same smoking category (Zwi et al., 1967; Sluis-Cremer et al., 1967 a, b; Sluis-Cremer and Sichel, 1968). The severity of emphysema in gold miners detected at autopsy was not related to smoking habits (Prinsloo and Laubscher,

1970).

In Egypt, a group of 223 cement workers showed a significant correlation between cement exposure and wheezing, dyspnea and physical signs of chronic bronchitis. Cigarette smoking was related only to cough and expectoration (El-Sewefy and Awad, 1971). Among 89 bricklayers and 245 workers in the rolling mills, respiratory symptoms were more frequently encountered among smokers than among nonsmokers (El-Sewefy, 1970). In Israel, among 257 cotton mill workers and 64 orchestra players, smoking was a significant factor which increased the prevalence of respiratory symptoms (Chwat and Mordish, 1971). Results of a survey of 175 Indian wool workers are similar (Mathur and Misra, 1972).

9. Asian-Pacific countries. In Australia, the following types of industrial workers have been examined: coalminers (Outhred and Flynn, 1960; McKenzie et al., 1969); felt manufacturers (Gandevia and Milne, 1965), cotton workers (Barnes and Simpson, 1968).

Residents in New South Wales (Hong et al., 1967; Gandeva, 1969) and in Sydney (Lake, 1969) have also been surveyed. An association between cigarette smoking and prevalence of chronic lung disease is indicated.

The results of surveys conducted in Japan (Takenouchi, 1968;

Nishimoto et al., 1970; Tsumetoshi et al., 1971), in Singapore (Da Costa, 1972), in New Zealand (De Hamel et al., 1972) and in New Guinea

(Woolcock et al., 1970) have revealed a relationship between smoking

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10. South America and Caribbean. The epidemiological 1971; studies, reported from Mexico (Paras Chavero et al., 1970/Celis 1968), et al./. Cuba (Rodriguez Rivera et al., 1969), Chile (Oyanguren et al., 1972) and Jamaica (Walshe and Hayes, 1967) reveal an association between smoking and prevalence of respiratory symptoms.

V. NON-OCCURRENCE OF CHRONIC PULMONARY DISEASE IN SM	OKERS
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